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ECONOMIC STUDIES PERTAINING TO
PROCESSING PLANT FEASIBILITY
A Partial Bibliography

Compiled by
Dana G. Dalrymple

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U.S. Federal Extension Service. + 7a
U. S. Department of Agriculture
50 Washington 25, D. C.

PREFACE

Extension economists are increasingly being faced with requests for assistance in evaluating processing plant feasibility. For many this is a relatively new field.

In order to provide extension workers with background information on this subject, it was thought desirable to prepare a list of studies in this area. The resulting compilation, as the title suggests, is not intended to be complete - for questions of plant feasibility involve many phases of agricultural economics. Rather, an attempt has been made to list most of the more important references on the subject. It must be admitted, however, that the bibliography is more complete for crops than it is for animal products.

The reports listed vary widely in scope and depth; this is particularly true of the relatively few actual feasibility studies.

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1. Introduction

The purpose of this study is to investigate the effects of various factors on the growth of a certain plant species. The study was conducted over a period of six months, during which time the plants were grown under different conditions. The factors being studied include light intensity, water availability, and soil composition. The results of the study will be presented in the following sections.

ECONOMIC STUDIES PERTAINING TO
PROCESSING PLANT FEASIBILITY
-A Partial Bibliography

Compiled by
Dana G. Dalrymple*

I. GENERAL THEORY

THE FIRM

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Frank A. Fetter, "The Economic Law of Market Areas," Quarterly Journal of Economics, May, 1924.

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M. L. Greenhut, Plant Location in Theory and in Practice, University of North Carolina Press, Chapel Hill, 1956.

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Walter Isard, Methods of Regional Analysis: An Introduction to Regional Science, Technology Press, Cambridge, 1960.

Walter Isard, Location and Space Economy, Wiley, New York, 1956.

T. C. Koopmans, Activity Analysis of Production and Location, Wiley, New York, 1956.

*Economist, Fruit and Vegetable Marketing.

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

CHICAGO, ILL.

1925

TO THE HONORABLE CHAIRMAN OF THE BOARD OF TRUSTEES

OF THE UNIVERSITY OF CHICAGO

AND THE FACULTY OF THE PHYSICS DEPARTMENT

IN CONNECTION WITH THE PROPOSAL FOR THE

1925

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RELOCATION OF THE PHYSICS DEPARTMENT

TO THE NEW BUILDING

II. PROCESSING POTENTIALS

FRUITS

General

Marshall Miller, "Marketing New or Improved Products," U. S. Dept. of Agriculture, Agricultural Marketing Service (speech), February 1959.

Marshall Miller, "Evaluation of Market Potentials for New Fruit Products," U. S. Dept. of Agriculture, Economic Research Service (speech), October 1961.

Apples

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W. S. Greig and N. W. Stuckman, Market Potentials for Dehydrocanned Apple Slices, Michigan State University, Dept. of Agricultural Economics, Ag. Econ. 801, September 1960, 52 pp.

E. J. McGrath and H. W. Kerr, Dehydrofrozen Apples: Their Potential in Selected Markets, U. S. Dept. of Agriculture, Marketing Research Report 578, January 1963, 20 pp.

E. J. McGrath and Margaret Weidenhamer, The Market Potential for Superconcentrated Apple Juice, U. S. Dept. of Agriculture, Marketing Research Report 582, January 1963, 54 pp.

Exotic

Frank Scott, Jr., An Analysis of Market Development for Frozen Passion Fruit Juice, University of Hawaii, Agricultural Economics Bulletin 11, June 1958, 39 pp.

Frank Scott, Jr., An Economic Analysis of the Market for Frozen Guava Nectar Base, University of Hawaii, Agricultural Economics Bulletin 14, September 1958, 21 pp.

Grapefruit

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VEGETABLES

General

Gertrude Gronbeck, Consumption Trends and Patterns for Vegetables, Potatoes, Sweetpotatoes, and Dry Beans and Peas, U. S. Dept. of Agriculture, Agriculture Handbook No. 215, July 1961, 57 pp.

A. C. Manchester and J. C. Podany, Shifts in Supply Areas and Consumption Rates for Vegetables 1939 to 1955, U. S. Dept. of Agriculture, Marketing Research Report 221, March 1958, 30 pp.

Onions

W. S. Greig and Lockwood Marine, Onions and Their Processing Potential, Michigan State University, Dept. of Agricultural Economics, A. E. 858, March 1962, 113 pp.

Peas

E. J. McGrath and Morris Sills, Restaurant Acceptance of Dehydrofrozen Peas--A Product Test Conducted in 100 Milwaukee Restaurants, U. S. Dept. of Agriculture, Marketing Research Report 198, October 1947, 27 pp.

Potatoes (Irish)

P. B. Dwoskin and Milton Jacobs, Potato Flakes--Market Position and Consumer Acceptance, U. S. Dept. of Agriculture, Marketing Research Report No. 186, 1957, 54 pp.

W. S. Greig, The Restaurant, Hotel, and Institutional Market for Dehydrated Mashed Potatoes, Michigan State University, Dept. of Agricultural Economics, A. E. 691, September 1957.

Harry Harp and Dennis Dunham, Market Potentials for Processed Potato Products, U. S. Dept. of Agriculture, Marketing Research Report 505, October 1961, 27 pp.

Potatoes (Sweet)

P. B. Dwoskin, O. C. Hester, H. W. Kerr, and J. A. Bayton, Market Test of Instant Sweetpotatoes in Selected Institutional Outlets, U. S. Dept. of Agriculture, Marketing Research Report 580, January 1963, 41 pp.

The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the business to have a clear and concise record of all income and expenses. This will allow the business to track its financial performance over time and identify areas for improvement.

The second part of the paper discusses the importance of maintaining accurate records of all assets and liabilities. This will allow the business to track its net worth over time and identify areas for improvement. It is also important to maintain accurate records of all debts and obligations, as this will allow the business to track its financial obligations over time.

The third part of the paper discusses the importance of maintaining accurate records of all taxes and other legal obligations. This will allow the business to track its tax obligations over time and identify areas for improvement. It is also important to maintain accurate records of all other legal obligations, as this will allow the business to track its legal obligations over time.

The fourth part of the paper discusses the importance of maintaining accurate records of all other financial information. This will allow the business to track its overall financial performance over time and identify areas for improvement. It is also important to maintain accurate records of all other financial information, as this will allow the business to track its overall financial performance over time.

DAIRY

Cheese

E. J. McGrath, Proctor Campell and Mardy Myers, Cottage Cheese, Its Sales Potential in Selected Markets, U. S. Dept. of Agriculture, Marketing Research Report 391, April 1960, 32 pp.

Cream

E. J. McGrath, The Market for Sour Cream, U. S. Dept. of Agriculture, Marketing Research Report 448, January 1961, 36 pp.

E. J. McGrath and Margaret Weidenhamer, Sour Cream--A Study of Its Market Potential in Des Moines, Iowa, U. S. Dept. of Agriculture, Marketing Research Report 368, October 1959, 43 pp.

GRAIN

Rice

Robert Enochian, J. S. Hunter and Roland Harris, Canned Cooked Rice - The Market Potential for a New Food Product, U. S. Dept. of Agriculture, Marketing Research Report 249, July 1958, 49 pp.

Wheat

Haven Umstott, Redi Wheat, A New Canned Cooked Bulgur, U. S. Dept. of Agriculture, Market Research Report 574, December 1962, 76 pp.

POULTRY

New Marketable Poultry and Egg Products, Cornell University, Dept. of Agricultural Economics:

2. Young Roasters, A. E. Res. 36, May 1960.
3. Cornell Formula French Toast, A. E. Res. 52, November 1960.
5. Chicken Barbecue Sauce, A. E. Res. 55, December 1960.
6. Chicken Franks, A. E. Res. 57, January 1961.
9. Chicken Bologna and Chickalona, A. E. Res. 83, January 1962.
10. Bake and Serve Chicken Loaf, A. E. Res. 86, February 1962.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the transparency and accountability of the organization. This section also outlines the various methods used to collect and analyze data, ensuring that the information is reliable and up-to-date.

2. The second part of the document focuses on the implementation of these practices across different departments. It provides a detailed overview of the current state of affairs, highlighting areas where improvements are needed. The text also includes a list of specific actions that must be taken to address these issues, along with a timeline for their completion.

3. The third part of the document discusses the role of technology in enhancing the efficiency of the record-keeping process. It explores various software solutions and tools that can be used to streamline data collection and analysis. This section also addresses the challenges associated with integrating new technologies into existing systems and provides strategies to overcome these challenges.

4. The fourth part of the document discusses the importance of training and education in ensuring that all staff members are equipped with the necessary skills to perform their duties effectively. It outlines a comprehensive training program that covers all aspects of the record-keeping process, from data collection to analysis and reporting. The text also includes a list of specific training modules and a schedule for their delivery.

5. The fifth part of the document discusses the importance of regular audits and reviews to ensure that the record-keeping process is functioning as intended. It outlines a systematic approach to conducting these audits, including the selection of audit teams, the development of audit plans, and the implementation of audit procedures. The text also includes a list of specific audit findings and recommendations for improvement.

6. The sixth part of the document discusses the importance of maintaining the confidentiality and security of all records. It outlines various measures that can be taken to protect sensitive information, including the use of encryption, access controls, and secure storage methods. This section also addresses the challenges associated with ensuring the integrity of the data and provides strategies to overcome these challenges.

7. The seventh part of the document discusses the importance of maintaining the accuracy and completeness of all records. It outlines various measures that can be taken to ensure that the data is reliable and up-to-date, including the use of data validation techniques, regular updates, and the implementation of data backup procedures. The text also includes a list of specific data quality issues and recommendations for improvement.

8. The eighth part of the document discusses the importance of maintaining the consistency and uniformity of all records. It outlines various measures that can be taken to ensure that the data is presented in a clear and consistent manner, including the use of standardized formats, templates, and coding systems. This section also addresses the challenges associated with ensuring the consistency of the data and provides strategies to overcome these challenges.

9. The ninth part of the document discusses the importance of maintaining the accessibility and availability of all records. It outlines various measures that can be taken to ensure that the data is easily accessible to all authorized users, including the use of user-friendly interfaces, search engines, and data sharing mechanisms. The text also includes a list of specific accessibility issues and recommendations for improvement.

10. The tenth part of the document discusses the importance of maintaining the integrity and reliability of all records. It outlines various measures that can be taken to ensure that the data is accurate and trustworthy, including the use of data validation techniques, regular updates, and the implementation of data backup procedures. The text also includes a list of specific integrity issues and recommendations for improvement.

III. INTERREGIONAL COMPETITION

FRUITS AND VEGETABLES

General*

Dale G. Stallings, Marketing Western Fruits and Vegetables - Long Term Outlook, U. S. Dept. of Agriculture, Economic Research Service, ERS 77, March 1963 (Summarized in The Farm Index, October 1962, p. 12).

R. A. King and W. R. Henry, "Transportation Models in Studies of Interregional Competition," Journal of Farm Economics, December 1959, pp. 997-1011.

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Apples

William Drew, "Demand and Spatial Equilibrium Models for Fresh Apples in the United States," Vanderbilt University, Dept. of Economics, Ph. D. dissertation, 1961, 277 pp.

Strawberries

C. C. Dennis and L. L. Sammet, Interregional Competition in the Frozen Strawberry Industry, University of California, Hilgardia, December 1961, pp. 499-603.

William E. Goble, Tennessee's Competitive Position in Producing and Marketing Strawberries, University of Tennessee, Agricultural Experiment Station, Bulletin 332, September 1961, 40 pp.

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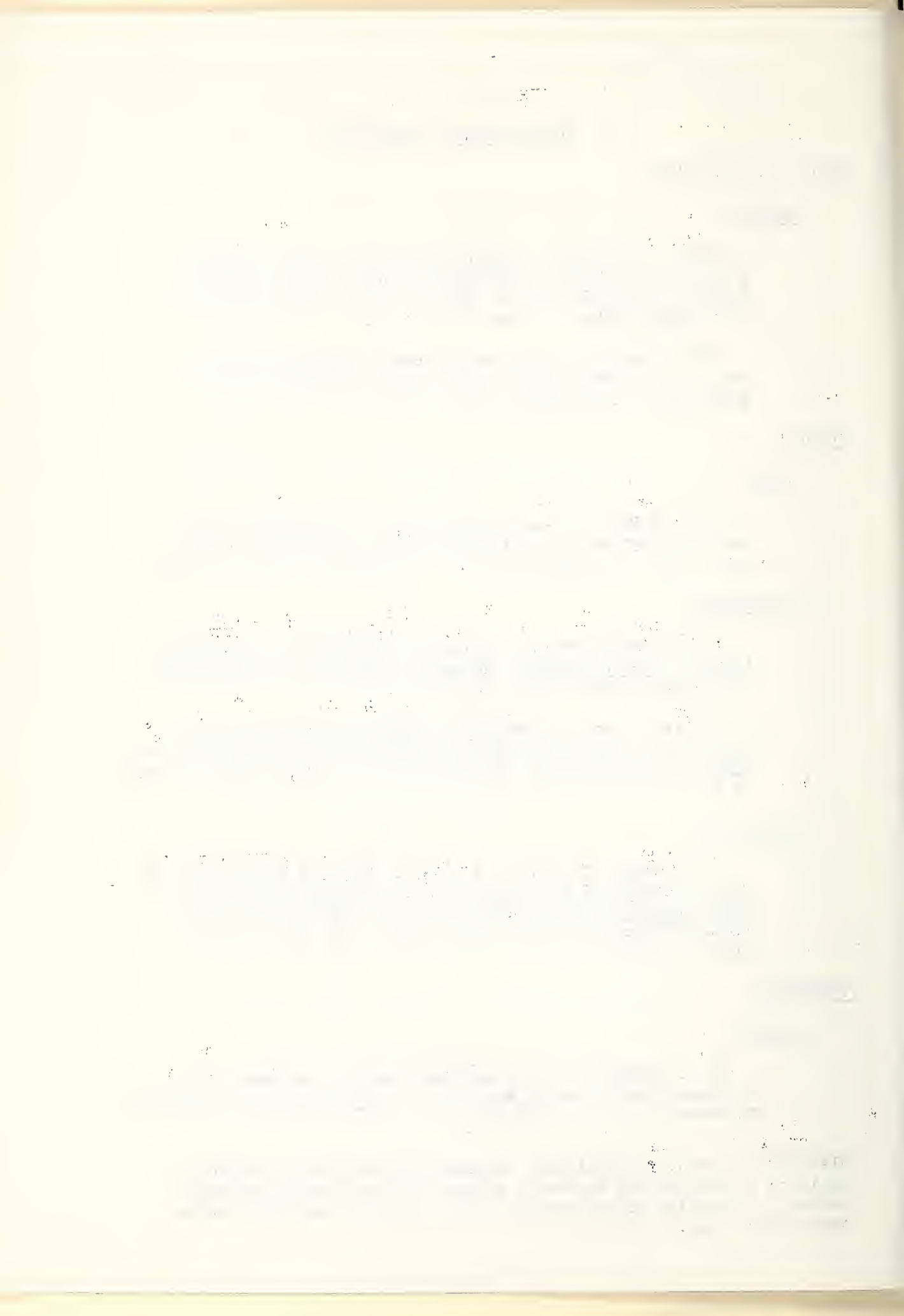
A. D. Seale, Jr. and M. B. Allen, Reactive Programming of Supply and Demand for Watermelons Produced in Mississippi and Competing Areas, Mississippi State University, Agricultural Experiment Station AEc. Tech. Pub. No. 1, June 1959, 119 pp.

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Beans

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A. D. Seale and M. B. Allen, An Evaluation of the Competitive Position of the Snap Bean Industry in Mississippi and Competing Areas, Mississippi State University, Agricultural Experiment Station, AEc. Tech. Pub. No. 3, December 1960, 113 pp.

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David Call, "Interregional Competition in the Production and Processing of Table Beets," Cornell University, Dept. of Agricultural Economics, Ph. D. dissertation, 1960, 375 pp.

Cabbage

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Corn

R. A. Andrews, A Study of the Sweet Corn Industry in the Midwest Farm Economy, University of Minnesota, Agricultural Experiment Station, Tech. Bulletin 232, (North Central Regional Publication No. 95), June 1959, 116 pp.

Cucumbers

Donald Farris and Richard King, Interregional Competition in Marketing Slicing Cucumbers, North Carolina State College, Dept. of Agricultural Economics, A. E. Information Series No. 78, September 1960, 67 pp.

1. The first part of the report deals with the general situation of the country and the progress of the work during the year.

2. The second part of the report deals with the results of the work during the year and the progress of the work during the year.

3. The third part of the report deals with the results of the work during the year and the progress of the work during the year.

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9. The ninth part of the report deals with the results of the work during the year and the progress of the work during the year.

10. The tenth part of the report deals with the results of the work during the year and the progress of the work during the year.

Peas

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H. M. Hutchings and G. B. Davis, An Economic Analysis of Interregional Competition in the Frozen Pea Industry, Oregon State University, Agricultural Experiment Station, in process.

Peppers

M. B. Allen and A. D. Seale, An Evaluation of the Competitive Position of the Green Pepper Industry in Mississippi and Competing Areas, Mississippi State University, Agricultural Experiment Station, A. E. Tech. Pub. No. 4, March 1961.

Donald Farris and Richard King, Interregional Competition in Marketing Green Peppers, North Carolina State College, Dept. of Agricultural Economics, A. E. Information Series No. 87, December 1961, 61 pp.

Potatoes (Sweet)

H. G. Ponder, "The Competitive Position of Louisiana in the Distribution of Sweet Potatoes," Louisiana State University, Dept. of Agricultural Economics, Ph. D. dissertation, 1962, 172 pp.

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General

M. M. Snodgrass and C. E. French, Linear Programming Approach to the Study of Interregional Competition in Dairying, Purdue University, Agricultural Experiment Station, Bulletin 637, May 1958, 27 pp.

LIVESTOCK

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1. The first part of the report deals with the general situation of the country and the progress of the work during the year.

2. The second part of the report deals with the results of the work during the year and the progress of the work during the year.

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1. Methodological Development and Annual Spatial Price Analyses of the Beef Marketing Sector, Bulletin T-78, June 1959, 62 pp.
2. Application of Spatial Analysis to Quarterly Models and Particular Problems Within the Beef Marketing System, Bulletin T-79, December 1959, 39 pp.
3. Spatial Price Equilibrium Models of the Pork Marketing System, Bulletin T-81, January 1960, 42 pp.

POULTRY

General

R. P. Christensen and R. L. Mighell, Interregional Competition in the Production of Chickens and Eggs, U. S. Dept. of Agriculture, Technical Bulletin No. 1031, July 1959, 71 pp.

Broilers

W. R. Henry and C. E. Bishop, North Carolina Broilers in Interregional Competition, North Carolina State College, Agricultural Experiment Station, Ag. Econ. Information Service No. 56, February 1957, 39 pp.

W. R. Henry, J. S. Chappell and J. A. Seagraves, Broiler Production Density, Plant Size, Alternative Operating Plans and Total Costs, North Carolina State College, Agricultural Experiment Station, Tech. Bulletin No. 144, June 1960, 83 pp.

Eggs

George G. Judge, Competitive Position of the Connecticut Poultry Industry, No. 7, A Spatial Equilibrium Model for Eggs, University of Connecticut, Agricultural Experiment Station, Bulletin 318, 1956, 36 pp.

A. P. Stemberger, North Carolina Eggs in Interregional Competition, North Carolina State College, Dept. of Agricultural Economics, A. E. Information Series No. 73, February 1960, 54 pp.

1. The first part of the paper discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the success of any business or organization. The author provides several examples of how poor record-keeping can lead to financial loss and legal complications.

2. The second part of the paper focuses on the various methods used to collect and analyze data. It compares different statistical techniques and discusses their strengths and weaknesses. The author also provides a detailed explanation of how to interpret the results of a data analysis.

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10. The tenth part of the paper focuses on the various methods used to collect and analyze data. It compares different statistical techniques and discusses their strengths and weaknesses. The author also provides a detailed explanation of how to interpret the results of a data analysis.

IV. FEASIBILITY STUDIES

GENERAL

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FRUITS AND VEGETABLES

Dehydration

Management Handbook to Aid Emergency Expansion of Dehydration Facilities for Vegetables and Fruits, U. S. Dept. of Agriculture, Agricultural Research Service (Albany, California), January 1959, 189 pp.

FRUITS

Apples

W. F. Lomasney, "Recommendations for the Development of Integrated Produce Marketing Facilities for Southern Illinois," University of Illinois, Agricultural Extension Service, (Chicago), October 1961, 3 $\frac{1}{4}$ pp.

Pears

John F. Stollsteimer, "The Effect of Technical Change and Output Expansion on the Optimum Number, Size, and Location of Pear Marketing Facilities in a California Pear Production Region," University of California, Dept. of Agricultural Economics, Ph. D. dissertation, 1961, 258 pp. A publication is in preparation.

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General

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Feasibility of a Vegetable Freezing Plant in Manitoba, Arthur D. Little, Cambridge, July 1962, 36 pp. (prepared for Department of Industry and Commerce, Government of Manitoba).

Potentials for Vegetable Processing: Eastern Arkansas, University of Arkansas, College of Business Administration, Industrial Research and Extension Center, May 1958, 67 pp.

THE UNIVERSITY OF CHICAGO

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Potatoes (Irish)

Richard Sawyer, "Some Considerations on Processing Plant Location," American Potato Journal, December 1960, pp. 424-427.

John A. Schoenemann, "What It Takes to Get Into Potato Processing," University of Wisconsin, Dept. of Horticulture, December 1962 (talk presented to the Wisconsin Potato Growers Association and published in The Badger Common 'Tater, February 1963).

J. M. Tinley and D. B. DeLoach, An Economic Analysis of the Feasibility of Processing Potatoes in California, University of California, Dept. of Agricultural Economics, Research Report No. 243, April 1961, 72 pp.

National Potato Utilization Conference, annual, 1950 to present, U. S. Dept. of Agriculture, Agricultural Research Service.

Potatoes (Sweet)

Leigh Hammond, The Feasibility of Expansion in the Sweet Potato Canning Industry in the Southern States, U. S. Dept. of Agriculture, Marketing Research Report, in process.

Planning Data for the Sweet Potato Industry, North Carolina State College, Dept. of Agricultural Economics, A. E. Information Series:

1. Gene Mathia and Richard King, Prices, Production and Assembly Costs, No. 92, June 1962, 56 pp.
2. Leigh Hammond and Richard King, Costs and Returns for a Model Canning Plant, No. 93, June 1962, 49 pp. Also see Hammond's Ph. D. dissertation, N. C. State, 1961.
3. Gene Mathia and Richard King, Selection of the Optimum Number, Size and Location of Processing Plants in Eastern North Carolina, No. 97, December 1962, Also see Mathia's Ph. D. dissertation, N. C. State, 1962.

Tomatoes

Outlook for a Tomato Processing Plant in Arkansas, University of Arkansas, College of Business Administration, Industrial Research and Extension Center, 23 pp.

DAIRY

Milk

Richard L. Simmons, The Economic Feasibility of Additional Milk Manufacturing Facilities in North Carolina, North Carolina State College, Dept. of Agricultural Economics, A. E. Information Series No. 99, February 1963.

Butter

Leonard Benning, "Feasibility Report for a Butter-Powder Manufacturing Plant in the Lake Region Area of South Dakota," South Dakota State College, Agricultural Extension Service, January 1962, 10 pp.

Cheese

Leonard Benning, "Feasibility Report for a Cooperative Cheese Manufacturing Plant in the Mission, South Dakota Area," South Dakota State College, Agricultural Extension Service, July 1962, 9 pp.

FORESTRY

General

Richard N. Jorgensen, "Plant Feasibility Checklist for a Forest Products Industry," Michigan State University, Agricultural Extension Service, April 1962, 8 pp.

Forest Industry Opportunities in Rural Development, U. S. Dept. of Agriculture, Forest Service, Information Bulletin 222, March 1960, 27 pp.

Charcoal

W. E. Keppler, Jr. and W. T. Huxster, Jr., Feasibility Guide for Charcoal Briquetting Plant, North Carolina State College, School of Forestry, April 1962, 17 pp.

GRAIN

General

W. S. Farris and J. H. Armstrong, Determining A Market Area Feed and Grain Potential, Purdue University, Dept. of Agricultural Economics, January 1963, 18 pp.

P. S. Richey and T. D. Johnson, Factors to be Considered in Locating, Planning, and Operating Country Elevators, U. S. Dept. of Agriculture, Marketing Research Report No. 23, June 1952, 94 pp.

Feed

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R. W. Schoeff and R. J. Baker, Determining Feed Plant Feasibility, Kansas State University, Formula Feed Extension, October 1961, 61 pp.

LIVESTOCK

General

R. E. Daugherty, "Feasibility Study on Commercial Cattle Feedlot, Haskell County, Oklahoma," Oklahoma State University, Agricultural Extension Service, July 1962, 16 pp.

H. Louis Moore, Feasibility of Cattle Feedlot in Western Pennsylvania, Pennsylvania State University, Dept. of Agricultural Economics, August 1962, 23 pp.

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General

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V. LOCATION STUDIES

GENERAL

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2. The second part of the document focuses on the implementation of the proposed changes. It details the steps involved in the transition process, from the initial planning phase to the final execution. This section also addresses the potential challenges that may arise during the implementation and provides strategies to overcome them.

3. The third part of the document discusses the impact of the proposed changes on the organization's overall performance. It analyzes the expected benefits and potential risks, providing a comprehensive overview of the expected outcomes. This section also includes a detailed financial analysis, showing the projected costs and savings associated with the implementation.

4. The fourth part of the document provides a summary of the key findings and conclusions. It reiterates the importance of the proposed changes and the need for continued monitoring and evaluation. This section also includes a list of recommendations for future actions, ensuring that the organization remains committed to the principles of transparency and accountability.

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